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PCT WELTORGANISATION FÜR GEISTIGES EIGENTUM
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INTERNATIONALE ANMELDUNG VERÖFFENTLICHT NACH DEM VERTRAG ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES PATENTWESENS (PCT)

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(81) Bestimmungsstaaten: JP, US, europäisches Patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Veröffentlicht
Mit internationalem Recherchenbericht.
Vor Ablauf der für Änderungen der Ansprüche zugelassenen Frist. Veröffentlichung wird wiederholt falls Änderungen eintreffen.

(54) Title: MONOCLONAL ANTIBODIES AGAINST LEUKOCYTE-SPECIFIC G-PROTEIN-COUPLED RECEPTORS

(54) Bezeichnung: MONOKLONALE ANTIKÖRPER GEGEN LEUKOZYTEN-SPEZIFISCHE G-PROTEIN-GEKOPPELTE REZEPTOREN

(57) Abstract

Monoclonal antibodies against leukocyte-specific G-protein-coupled receptors (L-GCR) are disclosed. These antibodies may be produced by the following steps: (a) introduction of a L-GCR coding nucleic acid into cells and expression of L-GCR; (b) immunisation of animals with L-GCR-expressing cells (a); and (c) fusion of spleen cells from the immunised animals (b) with myeloma cells and production of monoclonal L-GCR antibody-producing hybridoma cells. Also disclosed is a process for producing such antibodies, their use and kits containing the same, as well as a process for producing monoclonal GCR antibodies.

(57) Zusammenfassung

Die Erfindung betrifft monoklonale Antikörper gegen Leukozyten-spezifische G-Protein-gekoppelte Rezeptoren (L-GCR). Diese Antikörper sind durch folgende Verfahrensschritte erhältlich: (a) Einführung einer L-GCR-codierenden Nukleinsäure in Zellen und Expression von L-GCR, (b) Immunisierung eines Tieres mit L-GCR-exprimierenden Zellen von (a), und (c) Fusion von Milzzellen des immunisierten Tieres von (b) mit Myelomzellen und Erhalt von monoklonale L-GCR-Antikörper-produzierenden Hybridomzellen. Ferner betrifft die Erfindung Verfahren zur Herstellung solcher Antikörper, ihre Verwendung und sie enthaltende Kits. Desweiteren betrifft die Erfindung Verfahren zur Herstellung monoklonaler GCR-Antikörper.

(19) BUNDESREPUBLIK DEUTSCHLAND

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(56) Für die Beurteilung der Patentfähigkeit in Betracht gezogene Druckschriften:
Eur. J. Immunol. 22, S. 2795-2799, 1992;

(54) Monoklonale Antikörper gegen Leukozyten-spezifische G-Protein-gekoppelte Rezeptoren

(57) Die Erfindung betrifft monoklonale Antikörper gegen Leukozyten-spezifische G-Protein-gekoppelte Rezeptoren (L-GCR). Diese Antikörper sind durch folgende Verfahrensschritte erhältlich:
(a) Einführung einer L-GCR-codierenden Nukleinsäure in Zellen und Expression von L-GCR,
(b) Immunisierung eines Tieres mit L-GCR-exprimierenden Zellen von (a), und
(c) Fusion von Milzzellen des immunisierten Tieres von (b) mit Myelomzellen und Erhalt von monoklonale L-GCR-Antikörper-produzierenden Hybridomzellen.
Ferner betrifft die Erfindung Verfahren zur Herstellung solcher Antikörper, ihre Verwendung und sie enthaltende Kits. Des weiteren betrifft die Erfindung Verfahren zur Herstellung monoklonaler GCR-Antikörper.

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PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
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(21) International Application Number: PCT/US95/07173

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(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN, ARIPO patent (KE, MW, SD, SZ, UG), European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

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Date of receipt by the International Bureau: 1 November 1996 (01.11.96)

(54) Title: HUMAN G-PROTEIN CHEMOKINE RECEPTOR HDGNR10

(57) Abstract

Human G-protein chemokine receptor polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polypeptides for identifying antagonists and agonists to such polypeptides and methods of using the agonists and antagonists therapeutically to treat conditions related to the underexpression and overexpression of the G-protein chemokine receptor polypeptides, respectively. Also disclosed are diagnostic methods for detecting a mutation in the G-protein chemokine receptor nucleic acid sequences and detecting a level of the soluble form of the receptors in a sample derived from a host.

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
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(51) International Patent Classification 6 : C12N 15/12, C07K 14/705, 16/28, C12N 5/20 | A2

(11) International Publication Number: WO 97/22698

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(30) Priority Data:
08/575,967 20 December 1995 (20.12.95) US
08/661,393 7 June 1996 (07.06.96) US

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(81) Designated States: AU, BR, CA, CN, CZ, FI, HU, JP, MX, NO, PL, RU, SK, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

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(54) Title: CHEMOKINE RECEPTORS 88-2B[CKR-3] AND 88C AND THEIR ANTIBODIES

(57) Abstract

The present invention provides polynucleotides that encode the chemokine receptors 88-2B or 88C and materials and methods for the recombinant production of these two chemokine receptors. Also provided are assays utilizing the polynucleotides which facilitate the identification of ligands and modulators of the chemokine receptors. Receptor fragments, ligands, modulators, and antibodies are useful in the detection and treatment of disease states associated with the chemokine receptors such as atherosclerosis, rheumatoid arthritis, tumor growth suppression, asthma, viral infection, AIDS, and other inflammatory conditions.

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
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(51) International Patent Classification 6 :
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(11) International Publication Number: WO 97/26009

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(71) Applicant *(for all designated States except US)*: PROGENICS PHARMACEUTICALS, INC. [US/US]; 777 Old Saw Mill River Road, Tarrytown, NY 10591 (US).

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(54) Title: COMPOUNDS CAPABLE OF INHIBITING HIV-1 INFECTION

(57) Abstract

This invention provides an antibody capable of specifically inhibiting the fusion of an HIV-1 envelope glycoprotein+ cell with an appropriate CD4+ cell without cross reacting with the HIV-1 envelope glycoprotein or CD4 and capable of inhibiting infection by one or more strains of HIV-1. This antibody is then used to identify a molecule which is important for HIV infection. Different uses of the antibody and the molecule are described.

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
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(81) Designated States: CA, JP, US, European patent (AT, BE, CH, LU, MC, NL, PT,

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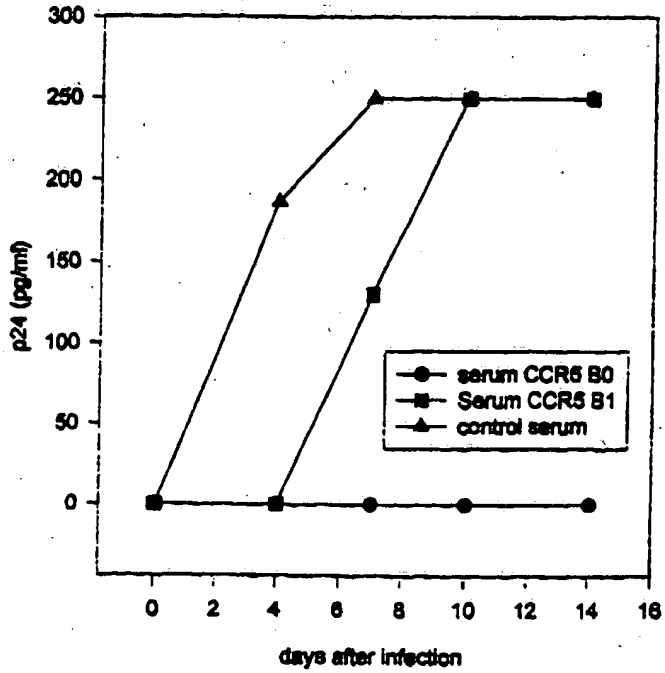
(54) Title: C-C CKR-5, CC-CHEMIKINES RECEPTOR, DERIVATIVES THEREOF AND THEIR USES

(57) Abstract

The present invention is related to new peptides and the nucleic acid molecules encoding said peptides. The present invention concerns also the vector comprising said nucleic acid molecules, cells transformed by said vector, inhibitors directed against said peptides or said nucleic acid molecules, a pharmaceutical composition and a diagnostic and/or dosage device comprising said products, and non human transgenic animals expressing the peptides according to the invention or the nucleic acid molecules encoding said peptides.



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(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

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(54) Title: CC CHEMOKINE RECEPTOR 5, ANTIBODIES THERETO, TRANSGENIC ANIMALS

(57) Abstract

The susceptibility of human macrophages to human immunodeficiency virus (HIV) infection depends on cell surface expression of the human CD4 molecule and CC cytokine receptor 5. CCR5 is a member of the 7-transmembrane segment superfamily of G-protein-coupled cell surface molecules. CCR5 plays an essential role in the membrane fusion step of infection by some HIV isolates. The establishment of stable, nonhuman cell lines and transgenic mammals having cells that coexpress human CD4 and CCR5 provides valuable tools for the continuing research of HIV infection. In addition, antibodies which bind to CCR5, CCR5 variants, and CCR5-binding agents, capable of blocking membrane fusion between HIV and target cells represent potential anti-HIV therapeutics for macrophage-tropic strains of HIV.

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
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(74) Agents: DAVIS, Michael, D. et al.; Klauber & Jackson, 411 Hackensack Avenue, Hackensack, NJ 07601 (US).

(54) Title: HIV CORECEPTOR MUTANTS

(57) Abstract

Entry of HIV-1 into target cells requires cell surface CD4 as well as additional host cell cofactors. A cofactor required for infection with virus adapted for growth in transformed T cell lines was recently identified and named fusin. Fusin, however, does not promote entry of macrophage-tropic viruses that are believed to be the key pathogenic strains *in vivo*. It has now been determined that the principal cofactor for entry mediated by the envelope glycoproteins of primary macrophage-tropic strains of HIV-1 is CC-CKR5, a receptor for the β-chemokines RANTES, MIP-1α, and MIP-1β. It has also been found that individuals who are homozygous for a mutation of the CKR-5 receptor are resistent to HIV infection; *in vitro* infection requires a 1000-fold higher dose of HIV than normal cells. The mutation results in complete suppression of CKR-5 expression.

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
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(71) Applicant *(for all designated States except US)*: MAX-PLANCK-GESELLSCHAFT ZUR FÖRDERUNG DER WISSENSCHAFTEN E.V. [DE/DE]; Berlin (DE).

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(81) Designated States: CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

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(54) Title: METHODS FOR THE MODULATION OF THE GROWTH OF COLLATERAL ARTERIES AND/OR OTHER ARTERIES FROM PREEXISTING ARTERIOLAR CONNECTIONS

(57) Abstract

Described is the modulation of the growth of collateral arteries and/or other arteries from preexisting arteriolar connections. Methods are provided for enhancing the growth of collateral arteries and/or other arteries from preexisting arteriolar connections comprising contacting tissue or cells with a monocyte chemotactic protein (MCP) or a nucleic acid molecule encoding said MCP. Furthermore, the use of a MCP or a nucleic acid molecule encoding said MCP for the preparation of pharmaceutical compositions for enhancing collateral growth of collateral arteries and/or other arteries from preexisting arteriolar connections is described. Also provided are methods for the treatment of tumors comprising contacting tissue or cells with an agent which suppresses the growth of collateral arteries and/or other arteries from preexisting arteriolar connections through the attraction of monocytes. Also descri bed is the use of an agent which suppresses the growth of collateral arteries and/or other arteries from preexisting arteriolar connections through attraction of monocytes for the preparation of pharmaceutical compositions for the treatment of tumors.

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
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(54) Title: MACROPHAGE DERIVED CHEMOKINE (MDC), MDC ANALOGS, MDC INHIBITOR SUSTANCES, AND USES THEREOF

(57) Abstract

The present invention provides purified and isolated polynucleotide sequences encoding a novel macrophage-derived C-C chemokine designated "Macrophage Derived Chemokine" (MDC), and polypeptide fragments and analogs thereof. Also provided are materials and methods for the recombinant or synthetic production of the chemokine, fragments, and analogs; and purified and isolated chemokine protein, and polypeptide fragments and analogs thereof. Also provided are antibodies reactive with the chemokine and methods of making and using all of the foregoing. Also provided are assays for identifying modulators of MDC chemokine activity.